Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Canceled).
- 2. (Currently Amended) The communication system according to Claim

 1, A communication system comprising a master node and a plurality of slave

 nodes, and the system in which the master node and slave nodes, and the system

 in which the master node and salve nodes communicate with one another,

 wherein the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and

a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a receiver of signal transmission from the master node, and a second selection signal signifying whether each slave node is selected as a sender of signal transmission to the master node; and

the second selection signal is used to select at most one slave node on a simultaneously.

3. (Currently Amended) The communication system according to Claim

1, A communication system comprising a master node and a plurality of slave

nodes, and the system in which the master node and slave nodes, and the system

in which the master node and salve nodes communicate with one another,

wherein the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a party of signal transmission to or from the master node, and a second selection signal signifying a direction of signal transmission between the master node and the slave node.

4. (Currently Amended) The communication system according to Claim [[1]]2, wherein each of the slave nodes comprises:

a means for, when the group of communication selection signals selects the slave node as a party of transmission from the master node, receiving transmission data sent from the master node synchronously with the clock signal; and

a means for, when the group of communication selection signals select the slave node as a party of transmission to the master node, sending transmission data to the master node synchronously with the clock signal.

- 5. (Canceled).
- 6. (Currently Amended) The control device according to Claim 5, Control devices comprising a master node, a plurality of slave nodes, actuators connected

to the respective slave nodes via respective switching means, and a communication system in which the master node and the slave nodes are communicated with one another, and the control device which controls the actuators in response to a instruction issued from the master node,

wherein, the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and

a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein each of the slave nodes comprises:

a means for, when the group of communication selection signals selects
the slave node as a party of transmission from the master node, receiving
transmission data sent from the master node synchronously with the clock
signal; and

a means for, when the group of communication selection signals selects
the slave node as a party of transmission to the master node, sending
transmission data to the master node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a receiver of signal transmission from the master node, and a second selection signal signifying whether each slave node is selected as a sender of signal transmission to the master node; and

the second selection signal is used to select at most one slave node on a simultaneously.

7. (Currently Amended) The control device according to Claim 5, Control devices comprising a master node, a plurality of slave nodes, actuators connected to the respective slave nodes via respective switching means, and a communication system in which the master node and the slave nodes are communicated with one another, and the control device which controls the actuators in response to a instruction issued from the master node,

wherein, the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal

transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and

a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein each of the slave nodes comprises:

a means for, when the group of communication selection signals selects the slave node as a party of transmission from the master node, receiving transmission data sent from the master node synchronously with the clock signal; and

a means for, when the group of communication selection signals selects
the slave node as a party of transmission to the master node, sending
transmission data to the master node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a party of signal transmission to or from the master node, and a second selection signal signifying a direction of signal transmission between the master node and the slave node.

8. (Canceled).

9. (Currently Amended) The information processing system according to Claim 8, An information processing system comprising a master node which includes a microprocessor and performs information processing, a plurality of slave nodes each of which includes a microprocessor and performs information processing, and a communication system in which the master node and the slave nodes communicate with one another, wherein the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and

a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein each of the slave nodes comprises:

a means for, when the group of communication selection signals selects the slave node as a party of transmission from the master node, receiving transmission data sent from the master node synchronously with the clock signal; and

a means for, when the group of communication selection signals selects
the slave node as a party of transmission to the master node, sending
transmission data to the master node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a receiver of signal transmission from the master node, and a second selection signal signifying whether each slave node is selected as a sender of signal transmission to the master node; and

the second selection signal is used to select at most one slave node on a simultaneous<u>ly</u>.

10. (Currently Amended) The information processing system according to Claim 8, An information processing system comprising a master node which includes a microprocessor and performs information processing, a plurality of slave nodes each of which includes a microprocessor and performs information processing, and a communication system in which the master node and the slave nodes communicate with one another, wherein the master node comprises:

a clock transmission means for transmitting a clock signal to the plurality of slave nodes;

a means for transmitting a group of communication selection signals, which signifies whether each slave node is selected as a party of signal

transmission to or from the master node and which signifies a direction of communication, to the slave nodes;

a means for transmitting data to the plurality of slave nodes synchronously with the clock signal; and

a means for receiving data sent from a selected slave node synchronously with the clock signal;

wherein each of the slave nodes comprises:

a means for, when the group of communication selection signals selects the slave node as a party of transmission from the master node, receiving transmission data sent from the master node synchronously with the clock signal; and

a means for, when the group of communication selection signals selects
the slave node as a party of transmission to the master node, sending
transmission data to the master node synchronously with the clock signal;

wherein the group of communication selection signals includes a first selection signal signifying whether each slave node is selected as a party of signal transmission to or from the master node, and a second selection signal signifying a direction of signal transmission between the master node and the slave node.

11. (Canceled).

12. (Currently Amended) The real-time control device according to Claim

11. Real-time control device comprising a main node for determining output timings and output waves, and a plurality of I/O nodes for transmitting outputs with respective output waves at respective output timings.

the control device further comprising:

a common serial channel through which the main node and the plurality of

I/O nodes are connected to one another; and

individual signal lines through which the main node and the respective

I/O nodes are connected to each other,

wherein information of the output timings determined by the main node are transmitted from the main node to the plurality of I/O nodes through the individual signal lines; and

information of the output waves determined by the main node are transferred from the main node to the plurality of I/O nodes through the common serial channel;

wherein the main node[[s]] comprises a microprocessor unit for determining the output timings and the output waves, a serial communication interface via which the information of the output waves are transmitted, and a timer for producing the output timing information.

13. (Currently Amended) The real-time control device according to Claim [[11]]12,

wherein the main node comprises a means for transmitting an I/O node selection signal that signifies whether each I/O node is designated as a party of transmission to or from the main node, and a means for producing a transmission clock; and

the main node transmits data synchronously with the transmission clock;

when an I/O node selection signal with which each I/O node is designated is active, the selected I/O node transmits data synchronously with the transmission clock.

14. (Currently Amended) The real-time control device according to Claim [[11]]12, wherein the main processor and I/O nodes are connected to one another owing the communication system set forth in Claim [[1]]2, the main processor corresponds to the master node, and the I/O nodes correspond to the slave nodes.